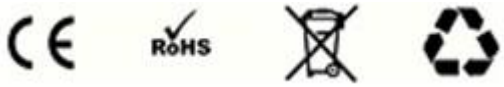
LASER SHOW SYSTEM

Model: Xstar

User's Manual

This product manual contains important information about the safe installation and use of this product.Please read and follow these instruction carefully and keep this manual in a safe place for future reference.



Security warning

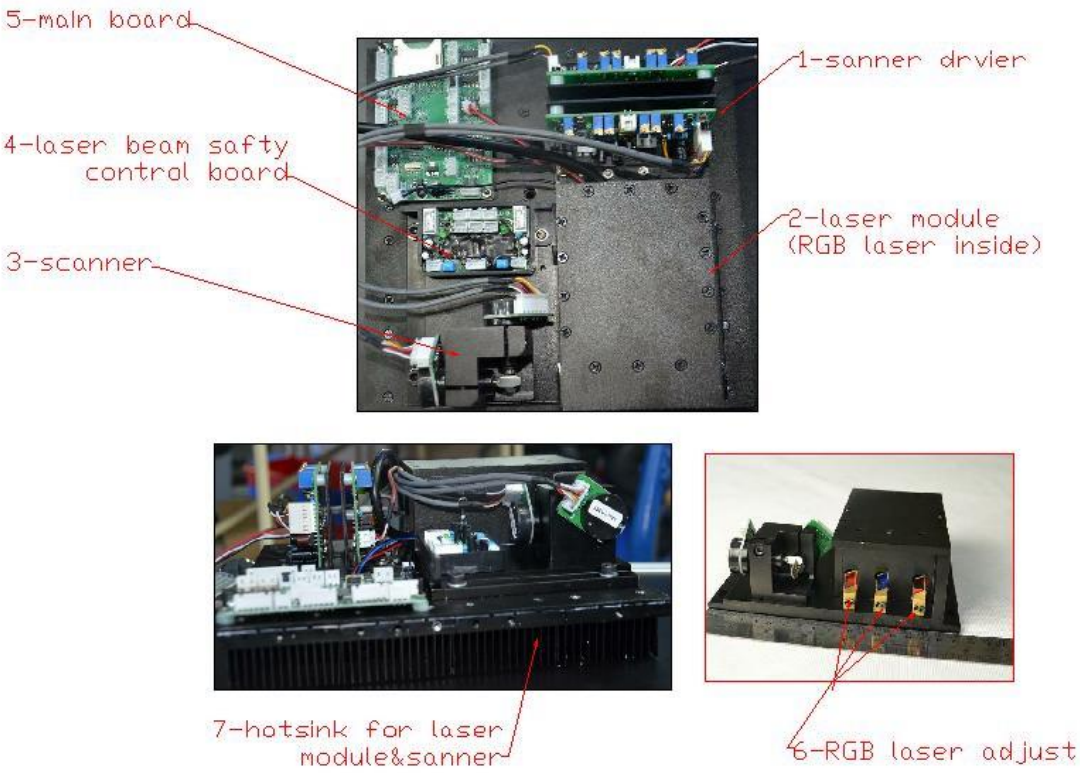
When unpacking and before disposing of the carton, check if there is any transportation damage before using the product.Should there be any damage caused by transportation,consult your dealer and do not use the apparatus.

- This equipment is not waterproof, keep it from rain, moisture and liquids.
- Do not install the product or project the beam onto inflammable surfaces. Minimum distance is 5 M
- The product is only intended for installation, operation and maintenance by
- qualified personnel.
- Product should install in a cool place. Keep away from the wall 50cm
- Avoid direct exposure to the light from the lamp.The light is harmful to eyes.
- Keep the optical system clean.Do not touch the laser reflect lens with bare hands.Do not use any alcohol liquid or any other liquit to clean the optical system.Use medicinal absorbent cotton to clean it.
- Please do not attempt to dismantle and/or modify the product inner structure.Otherwise,would not provide 1 year of free warranty.

- Electrical connection must only be carried out by qualified personnel.
- Before installation,ensure that the voltage and frequency of power supply match the power requirement of the product.
- It is essential that each product is correctly earthed and that electrical installation
- conforms to all relevant standards.
- Do not connect this device to any other types of dimmer apparatus.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables.Only handle the power-cord by the plug.Never pull out the plug by tugging th power-cord
- There is no user serviceable parts inside the product,do not open the housing and never operate the product with the cover removed.

If you have any questions,don't hesitate to consult our dealer or manufacturer.

Inside laser modules and structure:



◆ **Product technical parameters**

1.Voltage:AC90~240V 50~60HZ±10%

2.Power consumption: 200W

3.Laser power /wavelength:

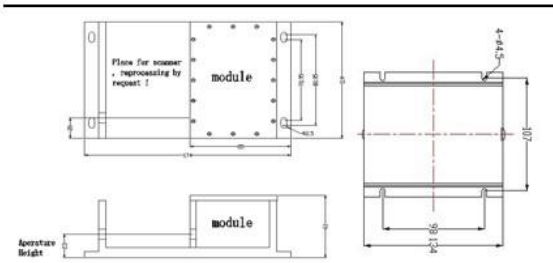
1x350mW	Red	(638nm)
1x350mW	G reen	(532nm)
1 x 800mW	Blue	(445nm)

4. laser module data sheet:

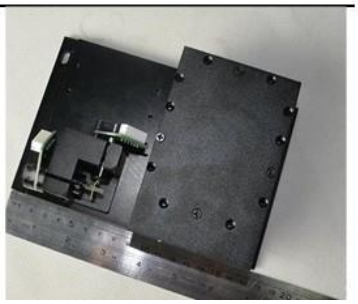
Model: W 2000I laser module

规格参数 SPECIFICATIONS:

To configure 配置		A：RL500S+ G300 + B800F			
		B： RL700S+ G500 +B1200F			
Output power 出光功率(mw)		1400~1800		2050~2450	
Aperture Height 出光高 (mm)		23			
Operating mode 操作模式		CW			
Power stability 功率稳定性(rms,over		<5%			
Warm-up time 预热时间(minutes)		5minutes			
Operating temperature 工作温度(℃)		15-40			
External Modulation 调制		TTL/Analogue			
Power Supply 电源		AC 90~260 V			
Expected lifetime 使用寿命(hours)		10000			
Warranty period 保修		1year			
Measurement Size 外观尺寸 mm		174*114*61			
Net Weight (KG)		1.98			
Distance (Meter) / Beam Size (mm)		At Aperature	5	10	20
	A.B model	4.5*4.5	4.2*4.2	5.7*5.7	20 x 20

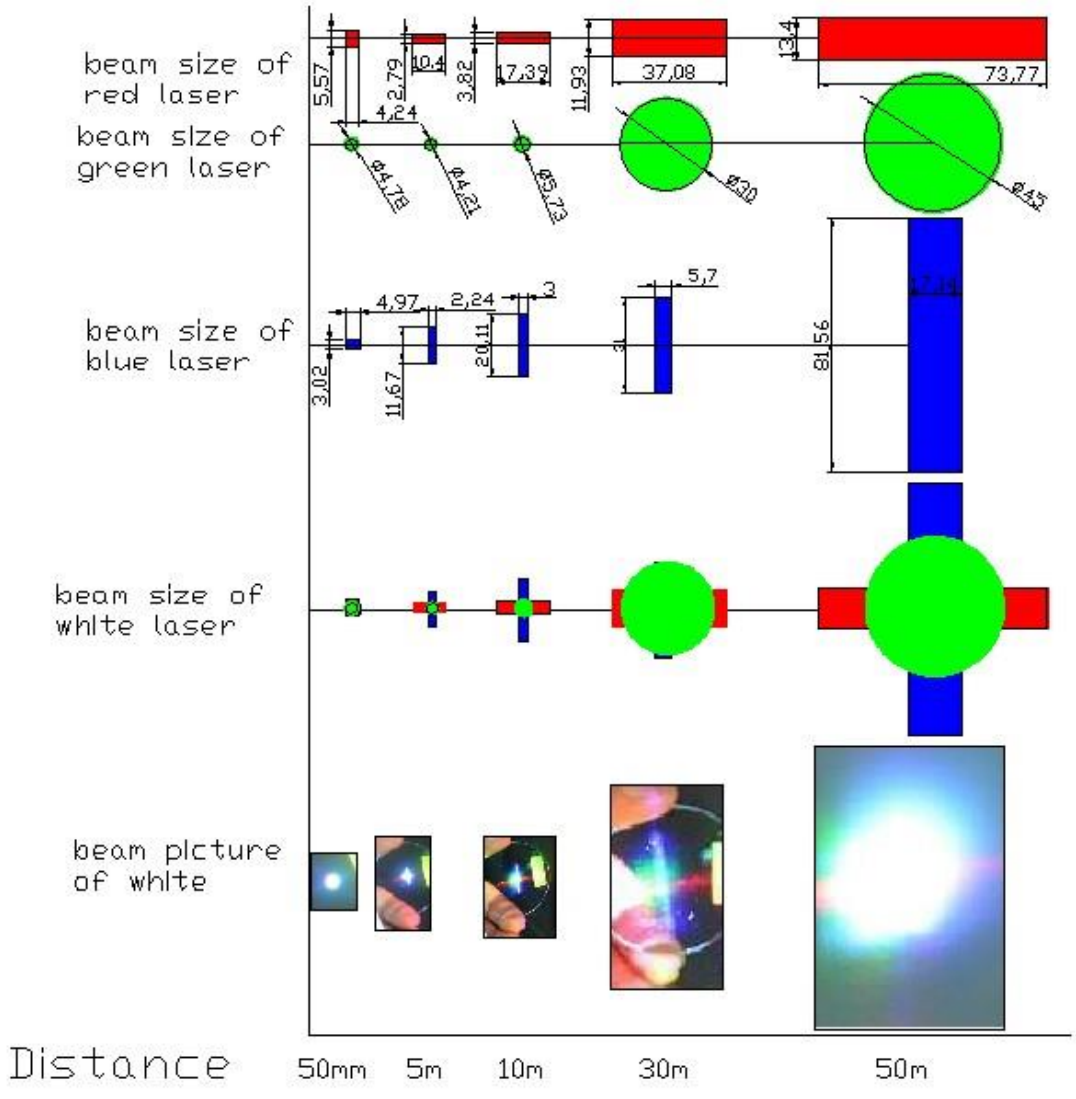


Laser Head



Power Supply

5. laser beam data sheet:



6. Colors: RGB full color

7 .Modulation signal : TTL 0~30K or Analog

8. Scanner system: 20kpps, 30kpps

9. Control mode: Music, auto, master-slave and DMX-512, ILDA Control , SD-card play

10. Cooling system: fan

11. Operation environement : Indoor

12.Operation temperature:-10°C～40°C

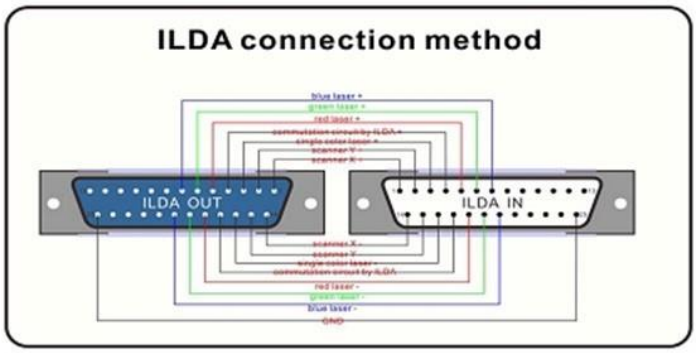
13. Net Weight : 8.5 kg

14. Dimension Size : 22*22*22 cm

◆ Function Description :

1. Back panel introduction

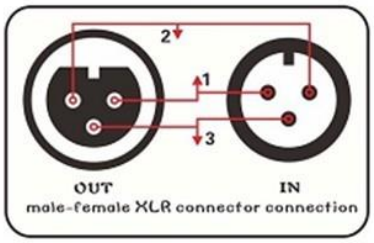
2. **ILDA control signal connection method:**



Connection built through product male/female DB 25 degree socket. Like above picture. In addition to the above connections, ILDA signal cannot be connected in any other way.

Connect ILDA signal, the lighting fixtures will automatically shift to ILDA working mode. This lighting fixtures ILDA signal cable connection way is compliant to international standard.

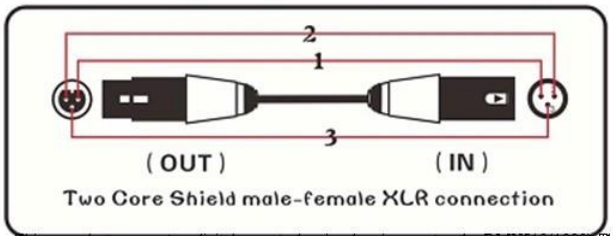
3. **DMX Connection method**



DMX-512

PIN	FUNCTION
1	GND
2	DATA-
3	DATA+

DMX control signal connection must be made with a two core-screened cable,with each core having at least a 0.5mm diameter. Please use the product's signal cable OUT and IN as connection. The signal OUT and IN cables connection shown as above picture.



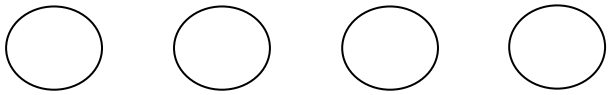
This product accepts digital control signals in protocol DMX512(1990).The amount of lighting fixtures connected in parallel is no more than 32.Connect the DMX controller's Output to the first lighting fixture's Input cable with a 2 core XLR signal cable(Shown as above),connect the first lighting fixture's Output cable to the second lighting fixture's Input cable and connect the rest light fixtures in the same way.Eventually,connect the last lighting fixture's Output cable to a DMX terminator

Under DMX-512 signal control mode,the last lighting fixture's DMX Output must be connected with a DMX terminator.This prevents electrical noise from disturbing and corrupting the DMX control signals.The DMX terminator is simply an XLR connector with a 120(ohm) resistor connected across pins 2 and 3,which is then plugged into the output socket on the last projector in the chain.Then connections are illustrated above.

Note: Please do not connect the signal cable OUT and IN in other way except above shown.

4. SD card laser operating system

Operating Buttons：



MODE： Change modes

UP、DOWN：When it is at PRG and ILD mode, just change files. When it is at sound mode, just change the rhythm.

Press and hold the Enter key for more than 3 seconds to save the current mode.

Working Mode：

Prg Mode ：Play PRG FILES. The second line displays the playing list name. Press“UP”and“DOWN”to change playing list.

ILDA Mode：Play ILDA FILES one by one.(Format is ILD），The second line displays the playing list name of ILDA Files，Press“UP”and“DOWN”to change playing list.

Audio Mode：Play programs according to the music. Press“UP”and“DOWN”to change the rhythms.

Auto Mode：Play programs automatically。

Dmx Mode：The first line shows the DMX IP, the second show the receiving status of the controller.

DMX Channel Details：

Description

CHANNEL		NUMBER	FUCTION	
1	Modes	0-73	Light closing	
		74-110	PRG mode	
		111-147	ILD mode	
		148-184	Audio mode	
		185-221	Auto Mode	
		222-255	Hand-operating	
2	Pictures/Files	0-255	Hand-operating	PRG/ILD mode
			Pictures changing，changed with each two numbers.	Choosing files
3	Flash/Files	0-10	Without flash	Files playing
		11-199	AUTO Flash	
		200-255	Sound Flash	
4	X Direction	0-125	Adjust the position	
		126-185	Auto LEFT AND RIGHT MOVING	
		186-225	Auto jump moving circles between left and right	
		226-245	Auto jump in disorder	
		246-255	Audio jump in disorder	
5	Y Directiom	0-125	Adjust position by hand	
		126-185	Auto moving in circles between up and down	
		186-225	Auto jumping in circles between up and down	
		226-245	Auto jump in disorder	
		246-255	Audio jump in disorder	
6	Zooming	0-10	No zooming	
		11-100	Adjust size by hand	
		101-150	enlarge	
		151-200	Zoom out	
		201-255	Zoom in circles	
7	X-axis rotating	0-10	No rotation	
		11-110	Adjust manually	
		111-255	Auto rotation	
8	Y-axis rotating	0-10	No rotation	
		11-110	Adjust manually	
		111-255	Auto rotation	
9	Rotating with center point	0	No rotation	
		1-180	Adjust manually	
		181-217	Auto clockwise rotation	
		218-255	Auto counter clockwise rotation	
10	Drawing	0-10	No change	
		10-74	Manual operation	
		75-104	Auto (up)	
		105-144	Auto (down)	
		145-184	Auto in circles	
		185-224	fore-and aft line in circle (up)	
		225-255	fore-and aft line in circle (down)	
11	wave	0-9	No speed	
		10-199	speed	
		200-255	range	
12	color			
	RGB	0-16	White	
		17-33	Red	
		34-50	Green	
		51-67	Blue	
		68-84	Yellow	
		85-101	Purple	
		102-118	Cyan	
		119-135	White red green blue four colors subsection	
		136-152	Blue Yellow Purple Cyan four colors subsection	
		153-169	White red green blue purple cyan seven colors subsections	
		170-186	White red green blue four color subsection moving	
		187-203	Blue Yellow Purple Cyan four colors subsection moving	
		204-220	Blue yellow purple cyan four color moving	
		221-237	Display according to breakpoint	

		238-255	Change c
	RGY	0-27	White
		28-55	Red
		56-83	green
		84-111	Yellow
		112-139	Red green two colors subsection
		140-167	White red green yellow four color subsections
		168-195	Red green two colors moving 红绿双色流动
		196-223	White red green yellow four colors moving
		224-255	Changing color with music
13	Display mode	0-63	Normal display
		64-127	Bright spot display
		128-191	Display in subsection
		192-255	Display dots

Remarks：

1.Only support FAT32 SYSTEM，if use new SD CARD, Please format to FAT32.

2.This system only support short name of files,8 number letters name at most and 3 number letters extension at most.(support letters, numbers, underline and so on)

3.SD card only for special use, don't mix with other files. Support 20 files at most, each file support 256 ILDA files and 10 PRG files at most.

4.PRG Program List：you can program with text to edit program with extension .PRG.The list is composed of file name, playing speed and playing times, then with Ishow ID CODE(i),block off with"，".Each line only support one program. For example: file1.ild、file2.ild、file3.ild 3 files，file1.ild playing speed is 12K，playing time is 3 times，file2.ild playing speed is 20K，playing time is 1 time, and file2 use ishow to edit，file3.ildplaying speed is 18K，playing time is 4times，Then prg1.prg contents are as follow：

File1.ild,12,3

File2.ild,20,1,i

File3.ild,18,4

When build a new file, you need to create a .PRG file with the same name of the new file in this new file. And then put all the programs in the .PRG file. The playing speed is the speed of "ILDA Mode"。For example，under aurora file，create a aurora.prg file。After add ILDA file，need to put this file to PRG List.

◆Troubleshooting

Problems	Action
The product doesn't switch on	Power connection is not correct.Re-connect the power.
	Power supply is damaged or abnormal.Call a qualified personnel to fix it.
	Connection of control board is not correct.Call a qualified personnel to fix it.
The product can turn on,but no light coming out.	Control mode is wrongly setting up.Resetting it according to instruction book
	Control section is damaged.Call a qualified personnel to fix it.
The beam appears dim	The product is too hot.Take ventilation measures to make it cool.

Note: This product is under warranty for 1 year (From the date of delivery), after 1 years can provide paid maintenance services. But if it is because of natural disasters or user's operation not according to manual.We won't provide warranty.